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2004-10-25 0210-0190PUS1.ST25.txt

SEQUENCE LISTING

<110> HIRAMATSU, Shingo
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YAMADA, Katsushige
TAMURA, Toshiki

<120> PRODUCTION OF PHYSIOLOGICALLY ACTIVE PROTEINS USING GENE RECOMBINANT SILKWORMS

<130> 0210-0190PUS1

<140> US 10/506,327

<141> 2004-09-02

<150> PCT/JP03/02675

<151> 2003-03-06

<160> 38

<170> Patent-In 3.2

<210> 1

<211> 1910

<212> DNA

<213> Artificial Sequence

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<223> sericin-1 gene promoter-feline interferon-w-bovine growth hormone poly A
addition sequence

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<222> (1071)...(1652)

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<222> (1071)...(1139)

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<222> (1140)...(1652)

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Gly	Gly	Asp	Gln	Ser	His	Lys	Ala	Gln	Ala	Leu	Ser	Val	Val	His	Val	
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Tyr	Ser	Pro	Cys	Ala	Trp	Glu	Ile	Val	Arg	Ala	Glu	Ile	Met	Arg	Ser	
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cctaataaaa	tgaggaaatt	gcatcgcat	gtctgagtag	gtgtcattct	attctggggg											1825
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<210> 2

<211> 1172

<212> DNA

<213> Artificial Sequence

<220>

<223> fibroin H chain gene promoter-feline interferon-w-bovine growth hormone poly A addition sequence

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<221> sig_peptide

<222> (333)...(401)

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agattaattt ctatgtaatt gtatctgtac aatacaatgt gtagatgttt attctatcga 240
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gcatcagttc ggttccaact ctcaagggtcg ac atg gcg ctg ccc tct tcc ttc 353
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Leu Val Ala Leu Val Ala Leu Gly Cys Asn Ser Val Cys Val Leu Gly
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Cys Asp Leu Pro Gln Thr His Gly Leu Leu Asn Arg Arg Ala Leu Thr
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Arg Asn Asp Phe Ala Phe Pro Gln Asp Val Phe Gly Gly Asp Gln Ser
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cac aag gcc caa gcc ctc tcg gtg gtg cac gtg acg aac cag aag atc 593
His Lys Ala Gln Ala Leu Ser Val Val His Val Thr Asn Gln Lys Ile
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ttc cac ttc ttc tgc aca gag gcg tcc tcg tct gct gct tgg aac acc 641
Phe His Phe Phe Cys Thr Glu Ala Ser Ser Ser Ala Ala Trp Asn Thr
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Leu Glu Ala Cys Val Leu Gln Glu Val Glu Glu Gly Glu Ala Pro Leu
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Thr Asn Glu Asp Ile His Pro Glu Asp Ser Ile Leu Arg Asn Tyr Phe
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caa aga ctc tcc ctc tac ctg caa gag aag aaa tac agc cct tgt gcc 833
Gln Arg Leu Ser Leu Tyr Leu Gln Glu Lys Lys Tyr Ser Pro Cys Ala
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Trp Glu Ile Val Arg Ala Glu Ile Met Arg Ser Leu Tyr Tyr Ser Ser
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Thr Ala Leu Gln Lys Arg Leu Arg Ser Glu Lys
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tcgag 1172

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<210> 3

<211> 31

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<223> synthesized oligonucleotide used in PCR to acquire the feline interferon-w gene

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31

<210> 4

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Synthesized oligonucleotide used in PCR to acquire the feline interferon-w gene

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<210> 5

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthesized oligonucleotide used in PCR to acquire the sericin-1 gene promoter

<400> 5

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29

<210> 6

<211> 30

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<213> Artificial Sequence

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<210> 7

<211> 29

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<213> Artificial Sequence

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<223> Synthesized oligonucleotide used in PCR to acquire the fibroin H chain gene promoter

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<210> 8

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Synthesized oligonucleotide used in PCR to acquire the fibroin H chain gene promoter

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<210> 9

<211> 30
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 <213> Artificial Sequence

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 atg acc aac aag tgt ctc ctc caa att gct ctc ctg ttg tgc ttc tcc 380
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 1 5 10 15
 act aca gct ctt tcc atg agc tac aac ttg ctt gga ttc cta caa aga 428
 Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg
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 35 40 45
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Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser	
85 90 95	
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Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val	
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tat cat cag ata aac cat ctg aag aca gtc ctg gaa gaa aaa ctg gag	716
Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu	
115 120 125	
aaa gaa gat ttc acc agg gga aaa ctc atg agc agt ctg cac ctg aaa	764
Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys	
130 135 140	
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145 150 155 160	
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Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn	
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Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
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<210> 18

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<212> DNA

<213> Artificial Sequence

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<223> Synthesized oligonucleotide used in PCR as a primer to obtain feline granulocyte colony stimulating factor gene fragment

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28

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<212> DNA

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<220>

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28

<210> 20

<211> 1175

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<222> (333)...(917)

<220>

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Ser Phe Leu	Leu Lys Cys	Leu Glu Gln	Val Arg Lys	Val Gln Ala	Asp	
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Gly Thr Ala	Leu Gln Glu	Arg Leu Cys	Ala Ala His	Lys Leu Cys	His	
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Pro Glu Glu	Leu Val Leu	Leu Gly His	Ala Leu Gly	Ile Pro Gln	Ala	
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Pro Leu Ser	Ser Cys Ser	Ser Ser Gln	Ala Leu Gln	Leu Thr Gly	Cys Leu	
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Arg Gln Leu	His Ser Gly	Leu Phe Leu	Tyr Gln Gly	Leu Leu Gln	Ala	
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